

NETWORK FABRIC PHYSICAL LAYER

5 **ABSTRACT OF THE DISCLOSURE**

A network fabric physical layer includes a driver coupled to a receiver via a bus, which implements a multiphase encoded protocol. A multiphase sequencer sequences (data or command/control) words for the driver. The driver outputs the sequenced words onto the bus as a differential multiphase encoded waveform. The receiver receives the differential multiphase encoded waveform and performs statistical analysis to determine data integrity checking. The bus is a concurrent differential bi-directional bus and each transmitting driver includes impedance compensation circuitry on both ends of a transmission line so that each drives its signal value with the impedance characteristics of the transmission line. The receiver also includes jitter immunity.

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